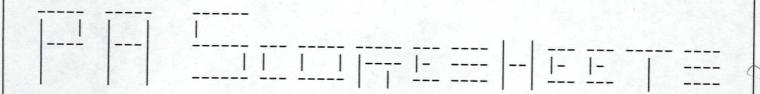
OMB Approval Number: 2050-0095 Approved for Use Through: 1/92



Site Name: TENNECO (AKA KALAMA CHEMICAL)

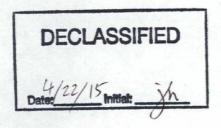
CERCLIS ID No.: NJD002005148 Street Address: 290 RIVER DRIVE City/State/Zip: GARFIELD, NJ 07026

Investigator: Judith Cusick

Agency/Organization: Ebasco Services, Inc.

Street Address: 160 Chubb Avenue City/State: Lyndhurst, NJ

Date: 2/11/92



PA-Score 1.0 Scoresheets TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

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WA

ST	E (CHAE	RACTE	RIST]	CS												
Wa:	ste	e Ch	arac	teris	stics	(WC) Ca	ılcu]	latio	ons:							
1	WA	ASTE	UNI	T 5		(Cont	amir	nated	soil		Ref:	2	WQ	value	max	imum
		ARE TOI	a OF UENE	CONC	ERN I PAHS	BECAI	.00E USE	:+00 OF F	acre HIGH	es Detec	TED	CONCE	NTRAT	2.5 IONS	56E+00 S OF BE	2.5 NZEN	6E+00 E,
										•							
															·		

Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List Suspected Release	
Are sources poorly contained? (y/n/u)	 Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	Y
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y
Other criteria? (y/n) Y ANALYTICAL DATA	
SUSPECTED RELEASE? (y/n)	Y
Summarize the rationale for Suspected Release:	
ANALYTICAL DATA INDICATE THAT THERE HAVE BEEN RELEASES OF CONTAMINANTS TO THE GROUNDWATER.	
	ļ
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PA-Score 1.0 Scoresheets TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

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Ground Water Pathway Criteria List Primary Targets	
Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	Y
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	ט
Does any nearby well have a large drawdown/high production rate? (y/n/u)	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	ט
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	ט
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n) N	
PRIMARY TARGET(S) IDENTIFIED? (y/n)	N
Summarize the rationale for Primary Targets:	
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	.
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	- 1

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GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics					Ref.
Do you suspect a release	∍? (y/n)	Y	es	
Is the site located in)	carst to	errain? (y/n)	N	0	2
Depth to aquifer (feet):	:		3	5	2
Distance to the nearest	drinki	ng water well	(feet): 0		13
LIKELIHOOD OF RELEASE		Suspected Release	No Suspected Release	Refe	rences
1. SUSPECTED RELEASE		, 550			
2. NO SUSPECTED RELEASE			0	ļ	
	LR =	550	0		
Targets	•				
TARGETS		Suspected Release	No Suspected Release	Refe	rences
3. PRIMARY TARGET POPULATION 0 person(s)	ON	0			
4. SECONDARY TARGET POPULA Are any wells part of a blended system? (y/n)	3	0	0		
5. NEAREST WELL		0	0		
6. WELLHEAD PROTECTION ARE None within 4 Miles	EA	0	0		
7. RESOURCES		5	0		
	T =	5	0		
WAR OUR COMPERSOR	•				
WASTE CHARACTERISTICS	WC =	18	0	Ī	
	•			-	
GROUND WATER PATHWAY SCORE:	-	 	1		
	-			_	

PA-Score 1.0 Scoresheets TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

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Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist.	Population Served	Reference	Value
None				
				
			 	<u> </u>
			Total	İ

Secondary Target Population
Distance CategoriesPopulation
ServedReferenceValue0 to 1/4 mile00130Greater than 1/4 to 1/2 mile0130Greater than 1/2 to 1 mile0130Greater than 1 to 2 miles0130Greater than 2 to 3 miles0130Greater than 3 to 4 miles0130Total0000

PA-Score 1.0 Scoresheets TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

Apportionment	Documentation	for a	Blended	System
				•
			١	

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	Y
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N
Other criteria? (y/n) N runoff discharges via drains to river	
SUSPECTED RELEASE? (y/n)	N
Summarize the rationale for Suspected Release:	
No evidence exists of surficial soil contamination. Most of the site is paved. There is no contamination within 0-2 feet in areas that are not paved.	
Ref: 2, 4	

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Surface Water Pathway Criteria List Primary Targets	
Is any target nearby? (y/n/u) If yes: N Drinking water intake N Fishery Y Sensitive environment	Y
Has any intake, fishery, or recreational area been closed? (y/n/u)	N
Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u)	N
Does any target warrant sampling? (y/n/u) If yes: N Drinking water intake N Fishery U Sensitive environment	N
Other criteria? (y/n) N	
PRIMARY INTAKE(S) IDENTIFIED? (y/n) Summarize the rationale for Primary Intakes: Drinking water is provided by the Passaic Valley Reservoir. No primary targets are located within the are of concern.	N
continued	

PA-Score 1.0 Scoresheets TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

continued		
Other criteria? (y/n)		
	PRIMARY FISHERY(IES) IDENTIFIED? (y/n)	N
Summarize the rationale for	Primary Fisheries:	
	·	
Other criteria? (y/n)	N	
PRIMARY SE	NSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n)	N
Summarize the rationale for	Primary Sensitive Environments:	

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SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics								
Do you suspect a release? (y/n) No								
Distance to surface water (feet	4	2						
Flood frequency (years):	1(00	24					
a. the nearest drinki b. the nearest fisher	What is the downstream distance (miles) to: a. the nearest drinking water intake? 0.0 b. the nearest fishery? 0.0 c. the nearest sensitive environment? 0.0							
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refe	rences				
1. SUSPECTED RELEASE 0								
2. NO SUSPECTED RELEASE 500								
LR =	0	500						

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Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	Reference
 Determine the water body type, flow (if applicable), and number of people served by each drinking water intake. 			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	, 0	20	
7. RESOURCES	0	5	
T =	0	25	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
1 none	N		0		0
	į į		<u> </u>		
			<u> </u>		-
		otal Primary Target Pop			0

Total Secondary Target Population Value | 0 |

PA-Score 1.0 Scoresheets TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

Apportionment	Documentation	for	a	Blended	System
				i	

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Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	0	
T =	0	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flo	w Ref.	 Value
None				
]
	<u> </u>		 	
	Tota] Tota]	Primary Fisheries V Secondary Fisheries	alue Value	0

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Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	10	
T =	0	10	

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Open Water, Passaic River	N	>10000 cfs	1,2,4	0
None				
			+	
	 		+ +	
	 		+	
				
		sitive Environments Valensitive Environments V		 ()

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score		Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	25	18	3
Human Food Chain	500	0	18	0
Environmental	500	10	18	1

				 	_
SURFACE	WATER	PATHWAY	SCORE:	4	

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Soil Exposure Pathway Criteria List Resident Population	
Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	Y
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	υ
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	Y
Does any neighboring property warrant sampling? (y/n/u)	ט
Other criteria? (y/n) N	
RESIDENT POPULATION IDENTIFIED? (y/n)	N
Summarize the rationale for Resident Population:	
The site is 25 % paved and 50 % building occupied. Most of the contamination at the site soils have been found at depths greater than 2 feet. Therefore, it is not suspected that residents within 200 feet of the areas (Waste Area No. 5) of contamination are exposed to site soil contamination.	
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Ref: 4, 26



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SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	Yes	22
Do any people attend school or daycare on or within of areas of suspected contamination? (y/n)	200 ft Yes	20
Is the facility active? (y/n):	Yes	11
LIKELIHOOD OF EXPOSURE Suspected Contamination Refe	erences	
1. SUSPECTED CONTAMINATION LE = 550		
Targets		
2. RESIDENT POPULATION 0 0 resident(s) 0 school/daycare student(s)		
3. RESIDENT INDIVIDUAL 0		
4. WORKERS 5 1 - 100		
5. TERRES. SENSITIVE ENVIRONMENTS 25		
6. RESOURCES 5		
T = 35		
WACEE OUADAOEED CONTOC		
WASTE CHARACTERISTICS WC = 18		
RESIDENT POPULATION THREAT SCORE: 4		
NEARBY POPULATION THREAT SCORE: 2		
Population Within 1 Mile: 10,001 - 50,000		
SOIL EXPOSURE PATHWAY SCORE: 6		



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Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
1 Open Water, Passaic River	25	25
	<u> </u>	
	<u> </u>	
,	+	
Total Terrestrial Sensitive Environm	ents Value	25

20



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Air Pathway Criteria List Suspected Release	
Are odors currently reported? (y/n/u)	Y
Has release of a hazardous substance to the air been directly observed? (y/n/u)	¥
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	ט
Does analytical/circumstantial evidence suggest release to air? $(y/n/u)$	Y
Other criteria? (y/n) Y	
SUSPECTED RELEASE? (y/n)	Y
nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u) Does analytical/circumstantial evidence suggest release to air? (y/n/u) Other criteria? (y/n) Y	

Summarize the rationale for Suspected Release:

Evidence exists that releases to the atmosphere have occurred. Toluene, benzoic acid dust, smog, salicylic powder, vapors and odors have been reportedly released by the facility.

Ref: 19, 21

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AIR PATHWAY SCORESHEETS

AIR FAIRWAI SCO	DRESHEETS			
athway Characteristics			•	Ref.
Do you suspect a release? (y/n)))	Ye	: es	
Distance to the nearest individ	dual (feet):	1(00	2,11
	Suspected	No Suspected	 	
LIKELIHOOD OF RELEASE	Release	Release	Refe	rences
1. SUSPECTED RELEASE	550		•	
2. NO SUSPECTED RELEASE		0		
LR =	,550	0		
argets			**	
TARGETS	Suspected Release	No Suspected Release	Refe	rences
3. PRIMARY TARGET POPULATION 3277 person(s)	32770			
4. SECONDARY TARGET POPULATION	142	0		
5. NEAREST INDIVIDUAL	50	0		
6. PRIMARY SENSITIVE ENVIRONS.	25			
7. SECONDARY SENSITIVE ENVIRONS.	0	0		
8. RESOURCES	5	0		
T =	32992	0		

WASTE CHARACTERISTICS	WC =		32 	 	0	
AIR PATHWAY SCORE:]		100		 -

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	N.A.		0
Greater than 0 to 1/4 mile	N.A.		0
Greater than 1/4 to 1/2 mile	8819	22,23	28
Greater than 1/2 to 1 mile	25210	22,23	26
Greater than 1 to 2 miles	94770	22,23	27
Greater than 2 to 3 miles	123036	22,23	38
Greater than 3 to 4 miles	133222	22,23	23
	Total Secondary Population Value		142

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Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
1 Open Water, Passaic River	1,2,4	25
	<u></u>	
	<u> </u>	
	 +	
	<u> </u>	
Total Primary Sensitive Environme	nts Value	25

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
l none	onsite		0.0
	j		
		+	

Total Secondary Sensitive Environments Value

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	1
SURFACE WATER PATHWAY SCORE:	4
SOIL EXPOSURE PATHWAY SCORE:	6
AIR PATHWAY SCORE:	100
SITE SCORE:	50

CONFIDENTIAL TENNECO (AKA KALAMA CHEMICAL) - 01/04/92

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SUMMARY

<i>71</i> 11 11		
1.	Is there a high possibility of a threat to any nearby drinking wate well(s) by migration of a hazardous substance in ground water?	r No
	If yes, identify the well(s).	
	If yes, how many people are served by the threatened well(s)? 0	
2.	Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water? A. Drinking water intake B. Fishery C. Sensitive environment (wetland, critical habitat, others)	No No No
	If yes, identity the target(s).	
3.	Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility?	No
	If yes, identify the properties and estimate the associated populat	ion(s)
4.	Are there public health concerns at this site that are not addressed by PA scoring considerations?	No
	If yes, explain:	